**Valve Regulated Lead-Acid Rechargeable Battery**

**EB12-12**

The battery is constructed by plates, separators, safety valves and container. Since the electrolyte is held by a glass-mat separator and plates, the battery can be used in any direction and position without leakage.

**PERFORMANCE SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Voltage(V)</td>
<td>12 volts (6 cells in series)</td>
</tr>
<tr>
<td>Nominal Capacity(AH)</td>
<td>12.0 A.H.</td>
</tr>
<tr>
<td>20 hour rate F.V.(1.75V/cell)</td>
<td>0.6A to 10.50volts</td>
</tr>
<tr>
<td>2 hour rate F.V.(1.60V/cell)</td>
<td>5.0A to 9.60volts</td>
</tr>
<tr>
<td>Approximate Weight</td>
<td>4300g (9.48lbs.)</td>
</tr>
<tr>
<td>Terminal</td>
<td>Type T2</td>
</tr>
<tr>
<td>Internal Resistance (Fully Charged Battery)</td>
<td>&lt;12mΩ</td>
</tr>
<tr>
<td>Maximum Discharge Current For 5 sec.(A)</td>
<td>180A</td>
</tr>
<tr>
<td>Maximum Charge Current(A)</td>
<td>3.6A</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td></td>
</tr>
<tr>
<td>Charge</td>
<td>0°C (32°F) ~ 40°C (104°F)</td>
</tr>
<tr>
<td>Discharge</td>
<td>-20°C (-4°F) ~ 50°C (122°F)</td>
</tr>
<tr>
<td>Storage</td>
<td>-20°C (-4°F) ~ 40°C (104°F)</td>
</tr>
<tr>
<td>Vibration test:</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>16.7HZ</td>
</tr>
<tr>
<td>Amplitude</td>
<td>4mm</td>
</tr>
<tr>
<td>Case</td>
<td>ABS</td>
</tr>
<tr>
<td>Dimension(mm/inch)</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>±1.5mm, 151/5.94</td>
</tr>
<tr>
<td>Width</td>
<td>±1.5mm, 98/3.86</td>
</tr>
<tr>
<td>Container Height</td>
<td>±1.5mm, 94/3.70</td>
</tr>
<tr>
<td>Total Height</td>
<td>±1.5mm, 98/3.86</td>
</tr>
<tr>
<td>Application</td>
<td>E-bike, Wheelchairs, Lawn Mowers, Electrical Scooter, Golf-Carts.</td>
</tr>
<tr>
<td>Cycle Life</td>
<td>Approx. 300 Cycles (D.O.D.100%), 500 Cycles (D.O.D.70%)</td>
</tr>
</tbody>
</table>
EB12-12 Battery discharge characteristics (25°C/77°F)

Discharge time

Battery Charging Characteristics
(Typical example of the charge characteristics for the standby use)

Battery Life Characteristics of Cyclic Use
Testing Conditions: Discharge Current: 5Amp
Final voltage: 1.60V/cell
Charging Current: 0.1C Amp
Charging Volume: 120% of Discharge Capacity
Ambient Temperature: 20°C (68°F)

Terminal Voltage(V)
Charging Procedure
Application
For standby power Source
For cycle service

Charging method
Constant voltage & Constant current charging (with current restriction)

Max. charging current (CA)
100% discharge
50% discharge

Constant voltage & Constant current charging voltage (mV/°C/cell)
2.25°~2.30
-3
0.3
24
20
2.40°~2.50
-4
0.3
16
10
0°~40 (32°~104°F)

*Temperature compensation of charging voltage is not needed, when using the batteries within 5°C to 35°C range.

OUTER DIMENSIONS

TERMINAL TYPE mm(inch)

Constant power discharge characteristics at 25°C/77°F

Constant current discharge characteristics at 25°C/77°F

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